Index of Claims

| Αp | pli | cati | on/ | Co | ntrol | No. |
|----|-----|------|-----|----|-------|-----|
|----|-----|------|-----|----|-------|-----|

10/805,499

Examiner

Brian Kunzer

Applicant(s)/Patent under Reexamination

AOYAGI, AKIYOSHI

Art Unit

2814

Rejected **Allowed** 

(Through numeral) Cancelled

Restricted

Non-Elected N Interference

**Appeal** 0 Objected

|  |          | Date            |          |          |          |  | Claim    |              |                |          |          |       |          |               |          |          |          |                |  |          |          |          |
|--|----------|-----------------|----------|----------|----------|--|----------|--------------|----------------|----------|----------|-------|----------|---------------|----------|----------|----------|----------------|--|----------|----------|----------|
| Cla  | aim      | <b>└</b>        |          |          | ,_!      | Dat  | e        | _            | _              | _        | -        | Cla   | aim      | L.,           |          |          | !        | Date           |  |          |          |          |
| Final  | Original | 9/28/05         |          |          |          |  |          |              |                |          |          | Finat | Original |               |          |          |          |                |  |          | :        |          |
|  | 1        | 1               |          |          |          |  |          | Г            |                |          | ]        |       | 51       | П             |          |          |          | Г              |  | Γ        |          | П        |
|  | 2        | V               |          |          |          |  |          | Г            |                | Г        | 1        |       | 52       | П             |          |          |          |                |  |          |          |          |
|  | 3        | 1               |          |          |          |  |          |              |                |          | ]        |       | 53       | $\Box$        |          |          |          |                |  |          |          |          |
|  | 4        | √               |          |          | L        |  |          |              |                |          |          |       | 54       |               |          |          |          |                |  |          |          |          |
|  | _5       | 1               |          | L        |          |  |          |              |                |          | ]        |       | 55       |               |          |          |          |                |  |          |          |          |
| Ĺ  | 6        | 1               | _        |          |          |  | L        |              |                |          |          |       | 56       |               |          |          |          |                |  |          |          |          |
|  | 7        | 1               |          |          | L.       | L_   |          | <u> </u>     |                |          | 1        | L     | 57       |               |          |          |          |                | L  |          |          |          |
|  | 8        | 1               |          | _        | L        |  |          | L            | <u> </u>       |          |          |       | 58       |               |          |          |          | _              | <u> </u>   | L        | _        |          |
|  | 9        | 1               | ļ        | <u> </u> | <u> </u> | <u> </u>   | _        |              | <u> </u>       | _        | ļ        |       | 59       | Ш             |          |          |          | $oxed{oxed}$   | <u> </u>   | L        | <u> </u> | Ш        |
|  | 10       | 1               |          |          | _        | <u> </u>   |          | L            | L              | <u> </u> | ļ        |       | 60       |               |          |          | _        |                | _  | <u> </u> | _        | Ш        |
| $\vdash$   | 11       | 1               | ļ        | <u> </u> | <u> </u> |  | <u> </u> | _            | ļ              | <u> </u> | <b>.</b> |       | 61       | Ш             |          |          | <u> </u> | <u> </u>       | L  | <u> </u> | L        | Ш        |
|  | 12       | 1               | -        | -        | -        | <del> </del>                                     | -        | $\vdash$     | $\vdash$       | <u> </u> | 1        |       | 62       | Н             |          |          | <u> </u> | <del> </del> _ | ⊢  |          | <u> </u> | Щ        |
|  | 13       |                 | <u> </u> |          | ┝        | ┢  | -        | -            | <u> </u>       |          | 1        |       | 63       | -             |          | <u> </u> | <u> </u> | <u> </u>       | _  | <u> </u> | _        | Н        |
|  | 14<br>15 | 1               | -        | H        | ⊢        | <u> </u>   | ⊢        | ├            | L              | _        | 1        |       | 64       |               |          |          | _        | _              | <u> </u>   | $\vdash$ |          | $\vdash$ |
|  | 16       | 1               |          | _        | ┝        |  | ├        |              | -              | -        | ł        |       | 65       | $\dashv$      |          |          | _        | -              | ├  | ⊢        | L        | Н        |
| $\vdash$   | 17       | N               | -        |          | H        | -  | ļ        | ⊢            | ⊢              | ⊢        | 1        |       | 66<br>67 | Н             |          |          | -        | _              | ⊢  | ┝        | -        | $\vdash$ |
| <del> </del>                                     | 18       | N               |          |          | -        | ⊢  | ├-       | ┢            | ⊢              | ⊢        | 1        |       | 68       | $\dashv$      | -        |          |          | $\vdash$       | ⊢  | H        | -        | $\vdash$ |
| <u> </u>   | 19       | N               |          | ⊢        | H        | $\vdash$   | -        | ⊢            | ├─             | ┢        | {        |       | 69       | $\vdash$      |          |          |          | ├              | ⊢  | $\vdash$ | $\vdash$ | $\vdash$ |
| $\vdash$   | 20       | N               | -        |          | -        | $\vdash$   |          | $\vdash$     | $\vdash$       | ⊢        | -        |       | 70       | $\vdash$      |          |          | -        | -              | ├  | ┝        |          | Н        |
| -  | 21       | N               |          |          |          | -  | ┢        |              | ⊢              | $\vdash$ | 1        |       | 71       | $\vdash$      | -        | _        | $\vdash$ | $\vdash$       | $\vdash$   | ┝        | _        | $\vdash$ |
| <del></del>                                      | 22       | N               |          | $\vdash$ | _        | ┝  | -        | -            | ┝              | ┢        | 1        |       | 72       | -             | -        |          | $\vdash$ | $\vdash$       | $\vdash$   | -        |          | $\vdash$ |
| -  | 23       | <del>  ``</del> |          | <u> </u> | <b>-</b> | ┢  | -        |              | $\vdash$       | $\vdash$ | 1        |       | 73       |               |          |          | $\vdash$ | $\vdash$       | -  | ┢        | -        | Н        |
|  | 24       |                 |          |          | -        | _  | $\vdash$ | <del> </del> | ┢              | $\vdash$ | 1        |       | 74       | $\dashv$      | -        |          |          | $\vdash$       | $\vdash$   | -        |          | Н        |
|  | 25       | _               |          | $\vdash$ |          | $\vdash$   | -        | ┢            | 1              | H        | 1        |       | 75       | -             |          |          | _        | $\vdash$       | $\vdash$   | ┢        | -        | Н        |
|  | 26       |                 |          |          | _        | ┪  |          |              | $\vdash$       |          | 1        | _     | 76       | _             | $\neg$   |          |          |                | <del>                                     </del> | $\vdash$ |          | H        |
|  | 27       |                 |          |          |          | <del>                                     </del> |          |              |                |          | 1        |       | 77       | $\dashv$      | $\neg$   | _        |          |                |  | _        |          | П        |
|  | 28       |                 |          |          |          | _  |          |              |                |          |          |       | 78       |               | $\neg$   |          |          |                | İ  |          | _        | П        |
|  | 29       |                 |          |          |          |  |          |              |                |          |          |       | 79       |               | $\neg$   |          |          |                | Г  |          |          |          |
|  | 30       |                 |          |          |          |  |          |              |                |          |          |       | 80       |               |          |          |          |                |  |          |          |          |
|  | 31       |                 |          |          |          |  |          |              |                |          |          |       | 81       |               | Ī        |          |          |                |  |          |          | П        |
|  | 32       |                 |          |          |          |  |          |              |                |          |          |       | 82       |               |          |          |          |                |  |          |          | П        |
|  | 33       |                 |          |          |          |  |          |              |                |          |          |       | 83       |               |          |          |          |                |  |          |          |          |
|  | 34       | L               |          |          |          | L  |          | L            |                | <u> </u> |          |       | 84       |               |          |          |          |                |  |          |          |          |
|  | 35       |                 |          |          |          | L  | <u> </u> |              |                |          |          |       | 85       |               |          |          |          |                |  |          |          |          |
|  | 36       | Ш               |          |          | _        | _  | _        |              |                | _        | ļ        |       | 86       |               |          |          |          |                |  |          |          | Ш        |
|  | 37       | Ш               |          | Ь.,      |          | <u> </u>   | L_       | <u> </u>     | <u> </u>       | <u> </u> |          |       | 87       | $\sqcup$      |          |          |          |                | <u> </u>   | Ш        |          | Ш        |
| $\sqcup$   | 38       | Ш               |          | Ш        | _        | <u> </u>   |          | <u> </u>     | <u> </u>       |          |          |       | 88       | $\sqcup$      | _        |          |          |                | <u> </u>   | _        |          | Ш        |
|  | 39       | $\sqcup$        | _        | <u> </u> | <u> </u> | $\vdash$   | <u>L</u> | <u> </u>     | <b> </b>       | _        |          |       | 89       |               | _        |          |          | Ш              | <u> </u>   | $\vdash$ |          | Ш        |
| $\vdash \vdash \vdash$                           | 40       | Ш               |          |          | Ļ.,      | <u> </u>   | <u> </u> | <u> </u>     | <u> </u>       | <u> </u> |          |       | 90       | $\sqcup$      | _        |          |          | Ш              | <u> </u>   | <b> </b> |          | Ш        |
| $\vdash$   | 41       | Ь               |          | Ш        | <u> </u> | L.   | L        | <u> </u>     | <b> </b>       | <u> </u> |          |       | 91       |               | _        | _        |          | Щ              | <u> </u>   | <u> </u> | Щ        | Ш        |
| <del>                                     </del> | 42       | Н               |          | $\vdash$ | <u> </u> | $\vdash$   | <u> </u> | <u> </u>     | $\vdash$       |          |          |       | 92       | $\dashv$      | 4        |          |          |                | <del> </del>                                     | -        |          | Щ        |
| $\vdash \vdash \vdash$                           | 43<br>44 | $\vdash$        |          |          | H        | <b> </b>   | H        | H            |                |          |          |       | 93       | $\rightarrow$ |          | _        |          | Ь.             | <u> </u>   | H        |          | Н        |
| $\vdash \vdash \vdash$                           | 44       | $\vdash$        |          | L        | H        |  | Н        |              | $\vdash$       | <u> </u> |          |       | 94<br>95 | $\dashv$      |          |          |          |                | $\vdash$   | -        | $\vdash$ | $\dashv$ |
| $\vdash \vdash \vdash$                           | 46       | Н               | -        |          | $\vdash$ | -  | -        | $\vdash$     | -              | _        |          | -     | 96       | $\dashv$      |          | _        |          | $\vdash$       | $\vdash$   | $\vdash$ | -        | Н        |
| $\vdash$   | 47       | $\vdash$        | _        |          | -        | H  | $\vdash$ | -            | <del>  -</del> | $\vdash$ |          | -     | 97       | $\dashv$      |          |          |          |                | $\vdash$   |          | $\vdash$ | $\dashv$ |
| ┝╼┤  | 48       | $\dashv$        |          |          | -        | $\vdash$   | $\vdash$ | -            | $\vdash$       | $\vdash$ |          |       | 98       | $\dashv$      |          |          | _        | $\vdash$       | ⊢  | $\vdash$ | -        | $\dashv$ |
|  | 49       | -               |          |          |          | $\vdash$   | -        | $\vdash$     |                | -        |          | -     | 99       | +             | $\dashv$ |          |          | $\vdash$       | $\vdash$   | $\vdash$ |          | $\dashv$ |
| $\vdash \vdash \vdash$                           | 50       | $\dashv$        | -        |          | -        | $\vdash$   | $\vdash$ | H            | $\vdash$       | -        |          |       | 100      | -             | $\dashv$ | $\dashv$ |          | H              | <u> </u>   | H        | -        | $\dashv$ |
|  | -55      |                 |          |          |          | L  |          | _            | L              | Ц.       | ! !      | 1     | 100      |               |          | 1        |          |                |  | لـــا    |          | لـــ     |

| Cla       | aim      | Т        |  |              |              | Dat      | —<br>е   | -            | -        | _        |
|-----------|----------|----------|--|--------------|--------------|----------|----------|--------------|----------|----------|
|           |          | Г        | Г  |              | Γ            |          | П        | Г            | Γ        |          |
| Finat     | Original |          |  |              |              |          |          |              | ;        |          |
|           | 51<br>52 |          |  |              |              |          |          |              |          |          |
|           | 52       | ╙        | <u> </u>   | <u> </u>     | _            | <u> </u> | L        | _            |          |          |
| <u> </u>  | 53       | <u> </u> | ┞  | ↓            | <u> </u>     | ┞        |          | <u> </u>     | <u> </u> | <u> </u> |
| <u> </u>  | 54<br>55 | ⊢        | ⊢  | ⊢            | ⊢            | ⊬        | ⊢        | -            | -        | <u> </u> |
| <u> </u>  | 56       | ╁        | ╁  | ╁            |              | $\vdash$ | -        | <del> </del> |          |          |
|           | 57       | $\vdash$ | ╁  | -            |              | ┢        |          | _            | $\vdash$ | _        |
|           | 58       |          | T  | f            |              | 1        |          |              |          |          |
|           | 59       |          |  |              |              |          |          |              |          |          |
|           | 60       | <u> </u> | _  |              |              |          |          |              |          |          |
|           | 61       | _        |  | <u> </u>     | <u> </u>     | <u> </u> | <u> </u> | <u> </u>     | _        | L        |
| $\vdash$  | 62<br>63 | -        | -  | -            | -            | ├—       | $\vdash$ |              | _        | $\vdash$ |
| -         | 64       | -        | -  | $\vdash$     | -            | $\vdash$ | $\vdash$ | $\vdash$     | -        | -        |
|           | 65       |          | $\vdash$   |              | $\vdash$     |          |          |              | -        | -        |
|           | 66       |          |  |              |              |          |          | Т            | $\vdash$ | $\vdash$ |
|           | 67       |          |  |              |              |          |          |              |          |          |
|           | 68       | L.       |  |              |              |          |          |              |          |          |
|           | 69       | <u> </u> | _  | _            |              | _        | <u> </u> | <u> </u>     |          | <u> </u> |
|           | 70<br>71 | ⊢        | <u> </u>   | <u> </u>     | _            | ⊢        | L        | <u> </u>     | <u> </u> | ├-       |
|           | 72       | -        | ├  | ├            | ⊢            | $\vdash$ | ⊢        | ┝            | ├        |          |
|           | 73       | -        | -  | H            |              |          | -        | -            | -        | $\vdash$ |
|           | 73<br>74 | $\vdash$ | <del>                                     </del> | T            |              |          |          |              | $\vdash$ |          |
|           | 75       |          |  |              |              |          |          |              |          |          |
| <u></u>   | 76<br>77 | <u> </u> | <u> </u>   | _            | _            | _        |          |              |          |          |
|           | 70       |          | ├—   | <del> </del> | _            | -        | _        | <u> </u>     | <u> </u> | <u> </u> |
|           | 78<br>79 | ⊢        | $\vdash$   | $\vdash$     |              |          | ┝        | -            |          | ┝        |
|           | 80       | H        | $\vdash$   | $\vdash$     | ┢            | -        | -        | H            |          | H        |
|           | 81<br>82 |          |  |              | <u> </u>     | ┪        | $\vdash$ |              |          |          |
|           | 82       |          |  |              |              |          |          |              |          |          |
|           | 83       | L        | L  |              | L            |          |          | _            |          |          |
|           | 84       | _        | _  | -            |              | <u> </u> | _        |              | H        | _        |
| -         | 85<br>86 | $\vdash$ | $\vdash$   | _            | H            | -        | <u> </u> | H            | H        |          |
| $\vdash$  | 87       | $\vdash$ | $\vdash$   |              |              | H        | -        | -            |          | -        |
|           | 88       |          |  |              |              |          |          | П            |          | Т        |
|           | 89       |          |  |              |              |          |          |              |          |          |
|           | 90       | 匚        | Ľ  |              |              |          |          |              |          |          |
| $\square$ | 91       | <u> </u> | $\vdash$   | <u> </u>     | $oxed{oxed}$ | $\vdash$ | _        | <u> </u>     | <u> </u> | <u> </u> |
| $\vdash$  | 92<br>93 | <u> </u> | $\vdash$   | $\vdash$     | H            |          | -        | _            |          | <u> </u> |
| $\vdash$  | 94       | -        | -  | $\vdash$     | _            | -        | -        | -            |          |          |
| $\vdash$  | 95       |          | <u> </u>   | -            |              |          |          | Н            | Н        | _        |
|           | 96       |          |  |              |              |          |          |              |          |          |
|           | 97       |          |  |              |              |          |          |              |          |          |
| $\vdash$  | 98       | L        | _  | <u> </u>     |              |          |          | _            |          |          |
| $\vdash$  | 99       | H        | $\vdash$   | <u> </u>     |              | $\vdash$ | _        | Щ            |          |          |

| Claim    |            | Date   |           |  |  |              |          |          |            |          |  |
|----------|------------|--------|-----------|--|--|--------------|----------|----------|------------|----------|--|
| Finat    | Originat   |        |           |  |  |              |          |          |            |          |  |
|          | 101        |        |           |  |  |              |          |          |            |          |  |
|          | 102        |        | <u> </u>  | <u> </u>   | L  | ┖            | <u> </u> | _        | _          | Ш        |  |
|          | 103        | _      | <u> </u>  | <u> </u>   | <u> </u>   |              | <u> </u> | _        | _          | $\sqcup$ |  |
|          | 104        |        | <u> </u>  | <u> </u>   |  | -            | _        | _        | -          | Ш        |  |
|          | 105<br>106 | _      | ┝         | ⊢  |  | H            | ├        | ⊢        | -          | Н        |  |
| -        | 100        | -      | ┝         | -  |  | 1            | ⊢        | ├        | ├          | Н        |  |
|          | 107<br>108 | _      | $\vdash$  | <u> </u>   |  | ╁            | -        | $\vdash$ | ┢          | Н        |  |
| _        | 109        |        |           | <del>                                     </del> | <del>                                     </del> |              |          | $\vdash$ | ╁┈         | Н        |  |
|          | 110        |        |           | -  |  |              |          |          | Т          |          |  |
|          | 111        |        |           |  | Г  |              |          |          |            |          |  |
|          | 112<br>113 |        |           |  |  |              |          |          |            |          |  |
|          | 113        |        |           |  |  |              | Ĺ        |          | L          |          |  |
|          | 114        | ļ      | L.        | _  | <u> </u>   | <u> </u>     |          | <u> </u> | L          | Ш        |  |
|          | 115<br>116 |        | $\vdash$  | <u> </u>   |  | _            | <u> </u> | <u> </u> | <u> </u>   | Щ        |  |
|          | 116<br>117 |        |           |  | -  |              | _        | <u> </u> | $\vdash$   | Н        |  |
|          | 117        |        |           | -  | -  | <del> </del> | ├-       | <u> </u> | $\vdash$   | Н        |  |
|          | 118<br>119 |        |           |  | ⊢  | $\vdash$     | ⊢        |          | ┝          | Н        |  |
|          | 120        |        |           |  | $\vdash$   |              | $\vdash$ | $\vdash$ | $\vdash$   | Н        |  |
|          | 121        |        | _         |  | _  |              | $\vdash$ |          | $\vdash$   | Н        |  |
|          | 122        |        |           |  |  |              |          |          |            | П        |  |
|          | 123<br>124 |        |           |  |  |              |          |          |            | П        |  |
|          | 124        |        |           |  |  |              |          |          |            |          |  |
|          | 125        |        |           |  |  |              |          |          |            |          |  |
|          | 126<br>127 |        |           |  |  | <u> </u>     |          |          |            | Щ        |  |
| -        | 127        |        |           |  |  | <u> </u>     |          |          |            |          |  |
|          | 128<br>129 | _      |           |  | _  | $\vdash$     | H        |          |            | $\dashv$ |  |
|          | 130        |        | -         |  |  | $\vdash$     |          |          |            | Н        |  |
|          | 131        |        |           |  |  | $\vdash$     |          | Η,       | _          | Н        |  |
|          | 132        |        |           |  | _  | _            | -        | H        |            | Н        |  |
|          | 133        |        |           |  |  |              |          |          |            |          |  |
|          | 134        |        |           |  |  |              | -        |          |            | Н        |  |
|          | 134<br>135 |        |           |  |  |              |          |          |            |          |  |
|          | 136        |        |           |  |  |              |          |          |            |          |  |
|          | 137<br>138 |        | _         |  |  | L            |          |          |            |          |  |
|          | 138        |        | $\dashv$  |  |  |              | <u> </u> | <u> </u> | <b>L</b> . | Щ        |  |
|          | 139<br>140 | -      | $\vdash$  |  |  |              |          | _        | _          | Щ        |  |
| -        | 141        | -      | _         |  |  |              |          |          | _          |          |  |
|          | 142        |        | $\dashv$  |  |  | H            | H        | -        | _          | $\dashv$ |  |
| -        | 143        |        |           |  |  | $\vdash$     | $\vdash$ |          | -          | $\dashv$ |  |
| $\dashv$ | 144        | -      | $\exists$ |  |  | $\vdash$     | Н        |          | Н          | $\dashv$ |  |
|          | 145        |        |           |  |  | П            |          | -        | П          | $\vdash$ |  |
|          | 146        |        |           |  |  |              |          |          |            |          |  |
|          | 147        |        |           |  |  |              |          |          |            |          |  |
|          | 148        | $\Box$ |           |  |  | Ш            |          |          |            |          |  |
|          | 149        |        |           | _  |  |              |          | Щ        |            | Ц        |  |
|          | 150        |        | i         |  | لــــ  | لـــا        | لـــا    |          |            | Ш        |  |